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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/944,189	09/04/2001	Akihiko Ito	110314	1196
25944 7590 10/21/2003 EXAMINER				NER
OLIFF & BERRIDGE, PLC			PRIZIO JR, PETER	
P.O. BOX 1992 ALEXANDRIA	-		ART UNIT PAPER NUMBER	
,			2674	1
			DATE MAILED: 10/21/2003	8

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/944,189	ITO ET AL.			
		Examiner	Art Unit			
•	•	Peter Prizio	2674			
	- The MAILING DATE of this communication app		1			
Period fo	Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SiX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1)	Responsive to communication(s) filed on					
2a)□		— is action is non-final.				
3)						
Disposition of Claims						
4) Claim(s) 1-5 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.					
	6)⊠ Claim(s) <u>1-5</u> is/are rejected.					
·	Claim(s) is/are objected to.					
=	Claim(s) are subject to restriction and/or on Papers	r election requirement.				
	•	r				
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b □ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) 🔲 🗆	The proposed drawing correction filed on					
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).a) ☐ The translation of the foreign language provisional application has been received.						
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6. 4) Interview Summary (PTO-413) Paper No(s) 5) Notice of Informal Patent Application (PTO-152) 6) Other:						

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 2. Claims 1-5 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The method of selectively setting a number of subfields of claim 1 and the subfield number setting circuit of claims 3-5 have not been disclosed. In Fig. 1, the timing signal generating circuit (200) comprising the DY selecting circuit (Fig. 4) further comprising the start pulse generating circuit (Fig. 5) is the closest disclosure, however it is apparent the timing signal generating signal is lacking circuitry necessary for one of ordinary skill to make or use this invention. The correlation between figures 4 and 5 is not apparent. Figure 5 shows inputs (Ds0...Ds6), the origin of which are not disclosed.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the

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applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1 and 2 are rejected under 35 U.S.C. 102(e) as being anticipated by US Patent 6,127,991 to Uehara et al. Uehara et al. (Fig. 2 & 3) teaches a display arranged in a matrix (15) to perform a gray scale (Col. 3, Line 41), selecting number of subfields (29), dividing a frame into subfields (Fig. 9), controlling on or off each of the pixels (Col. 4, line 34), providing pixels in association with each of the intersection of a plurality of scanning lines (19, 20) and a plurality of data lines (21), and supplying a scanning signal sequentially (Col. 2, Line 7).

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following US Patent is cited to further show the state of the art in gray scale display driving using subfields:

US Patent 6,317,104 to Kasahara et al.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter Prizio whose telephone number is (703) 305-5712. The examiner can normally be reached on Monday-Friday (7:30-5:00), alternating Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe can be reached on (703) 305-4709. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Peter Prizio Examiner Art Unit 2674

PP

RICHARD MJERPE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600